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REUTIN, P.D., starshiy prepodavatel

Potentials for shortening building time and lowering the cost of execting foundations for 4-5 story apartment houses. Trudy MIEI no.15:109-110 61. (MIRA 14:12)

1. Kazanskiy inzhenerno-stroitel nyy institut.
(Apartment houses)
(Foundations)

Method of determining the speed of hardening of centrifugal castings. Lit.proizv. no.7:43-44 Jl '61. (MIRA 14:7) (Centrifugal casting)
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Effect of raining of the metal in centrifugal casting on the quality of the cast products. Stal! 21 no. 4:372-374 Ap !61. (Centrifugal casting) (Centrifugal casting)	REUT	OV, N.N., kand.tekhn.naul	¢		
(Centrifugal casting)		Effect of raining of the quality of the cast production	metal in centrifuga ducts. Stal! 21 no.	4:3/2-3/4 HD 1010	4)
		(Ce	entrifugal casting)		

REUSS, E., prof.; THAMM, F.

The condition of membrane stress of a spheric shell in the vicinity of concentrated momentum. Periodida polytechn eng 4 no.3:217-226 *60. (EEAI 10:6)

1. Lehrstuhl fur Technische Mechanik der Technischen Universitat, Budapest. (Structural shells) (Strains and stresses)

E. REUSS.

"The stress strain relations of high viscous fluids and its application to supersonic regions." p. 65 (ACTA TECHNICA ACADEMIAE SCIENTIARUM HUNGARICAE, Vol 6, no. 1/2, 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

REUSOVA, YE. P.

REUSOVA, YE. P.- "Amputation Method of Curing Pulpitis with Application of Penicillin." Khar'kov Med Inst, Khar'kov, 1955 (Dissertations for Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis! No. 26, June 1955, Moscow

14(0)

sov/92-59-2-35/40

AUTHOR:

Reutov. A.V. Master Driller

TITLE:

Young Communist Brigade Im. XIII Congress of the All-Union Lenin's Young Communist League (V komsomol'sko-molodezhnoy brigade XIII

s"yezda VLKSM)

PERIODICAL: Neftyanik, 1959, Nr 2, p 33 (USSR)

ABSTRACT: The author states that efforts made by the personnel of the Young Communist Brigade to boost the petroleum production were very successful, and as a result the brigade received an honorary title. The area exploited by 44 men of the brigade is approximately 80 km long. All production wells, controlled by the personnel of the brigade, are linked with petroleum gathering centers by telephone and radio transmitters of the "Urozhay" type. Modern equipment making it possible to perform hydraulic fracturing and flooding is at the disposal of the brigade. It also takes advantage of centrifugal submersible pumps. Petroleum free flow is stimulated by applying new advanced methods which lower the cost of petroleum production. Auxiliary equipment also facilitates operations carried out by the brigade.

ASSOCIATION: Neftypromysel 4 NPU Bugul'maneft' (The Fourth Oilfield of the Bugul maneft' Petroleum Production Administration)
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REUTOV, I.

Competition is effective when it is concrete. Sov.profsoiuzy 5 no.11:22-25 N '57. (MIRA 10:11)

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(Electric industries)

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. 25(7)

SOV/117-59-7-5/28

AUTHOR:

Reutov, L.M., Engineer

TITLE:

Mechanization of the Forging Shops of the Plant "Kras-

nyy Proletariy"

PERIODICAL:

Mashinostroitel, 1959, Nr 7, pp 12-14 (USSR)

ABSTRACT:

The Moskovskiy stankostroitel'nyy zavod "Krasnyy Proletariy" imeni Yefremova (Moscow Machine-Tool Plant "Krasnyy Proletariy" imeni Yefremov) produces metal-cutting machine tools of different types. The article contains a detailed description of all the innovations that have been introduced and are planned to be introduced in order to mechanize production in the forge shop (previously it consisted of three separate shops). At present the shop is being radically reconstructed in order to organize in it during 1959 - 1960 a fully mechanized production of stampings and forgings. Figure 1 shows the preparation section, which receives 90% of all rolled metal that comes to the plant, and makes different

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SOV/117-59-7-5/28

Mechanization of the Forging Shops of the Plant "Krasnyy Proletariy"

等主义者,在17月1年间,是1877年,在1877年,只是1878年,因为1878年的第三人称单数的第三人称单数的第三人称,1878年,1878

blanks for machining and forging. In 1959, a press was installed for cutting blanks of a 100 mm diameter, but as there is no furnace for heating the bars, this press cannot be fully utilized. Semi-automatic milling and centering machines ("MP-77" and "MP-78" of the plant imeni Ordzhonikidze) are installed. From the preparing section, the blanks will be moved by conveyer to the stamping section (Figure 2), where stampings for the lathe "1K62" are made. The following grades of steel are mostly used for stamping: "45", "40Kh", "40KhN", "ShKh15", "60S2". Till 1958, this section had only two machines for hot stamping. In 1958 an 800 ton crank-lever press, a mechanical 2,500 ton forging press, a 160 and 1,200 ton forging machines, and a 315 ton trimming press were installed. In the same year gas was introduced as fuel for the furnaces instead of mazut. In 1960, it is intended to install two furnaces with non-oxidizing heating. Two furnaces with rotating bottom

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SOV/117-59-7-5/28

Mechanization of the Forging Shops of the Plant "Krasnyy Proletariy"

will provide continuously hot blanks for the stamping presses; the blanks' charging and discharging mechanism for these furnaces is under design development at the TsBKM. At present the plant, together with the NIIAvtogen is considering the use of electrode "NZh-3" for restoring the cutting edges of trimming dies. In Figure 3 are shown round inserts for the prismatic dies of the 2,500 ton press, and Figure 4 illustrates the idea of stamping "in pairs" different parts of the machine tool "IK62". Centralized feed of fluid lubricants to the presses and its pulverization on to the dies by a spray gun is being considered. The use of a similar divice at the MZMA has given positive results. Other details are given in the article. There are 4 diagrams.

Card 3/3

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s/128/60/000/001/003/007

A133/A127

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AUTHOR:

Reutov, N. N.

TITLE:

The chemical non-homogeneity of centrifugal steel

castings

PERIODICAL:

Liteynoye proizvodstvo, no. 1, 1960, 35-36

TEXT: The author comments on the phenomenon that centrifugal castings show a considerably greater chemical non-homogeneity than castings produced by stationary methods. Centrifugal casting involves, under the influence of centrifugal forces, displacement of primary crystals, of the liquid phases, and sometimes of the mother liquor. Therefore, it should be assumed that the chemical non-homogeneity is to grow with an increased rpm rate of the rotating mold. Actually, however, this is not the case at all. Tabulated data for large-size steel castings (weight: 2.5 tons, length: 6 m) indicate a low carbon, phosphorus and sulphur content in the peripheral layers and a concentrated amount of these elements in the central ar-

Card 1/5

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S/128/60/000/001/003/007 A133/A127

The chemical non-homogeneity...

eas of the same, with a carbon content of 0.31% in the test sample from the ladle. The internal surface of the solidifying skin of the casting is a two-phase zone in which the mother liquor is distributed between the axis of dendrites (see Figure 1), concentrated with the liquation additives C, P, and S. Since the poured liquid melt cannot immediately gain the angular rotational speed of the mold the liquid melt will slip along the skin which first forms on the walls of the mold. This slip causes a washing-out of the mother liquor from the interaxial space of the two-phase zone, and consequently accounts for the nonuniform distribution of C, P, and S between the peripheral and central zones of the casting. Then, the author investigates the degree of the chemical non-homogeneity in centrifugal castings, depending on the rotational speed of the mold, the lining of the mold and the pouring temperature. It is indicated that non-homogeneity decreases if the metal is poured at very high temperatures, reducing the viscosity of the melt and decreasing the

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The chemical non-homogeneity...

the rate of crystallization at the surface of the mold. The lowering of the viscosity factor of the melt enhances the washing out of the mother liquor from the two-phase zone of the crystallizing skin (Footnote Ref.1: Liteynoye proizvodstvo No. 6, 1959) and thus contributes to an increase of the chemical non-homogeneity of centrifugal castings. On the other hand, the decrease of the hardening rate during the filling of the mold impedes the development of the non-homogeneity since only a smaller volume of the mother liquor is washed out from the peripheral zone of the casting. At elevated pouring temperatures (1,620°C) the decrease of the hardening rate of the skin proves to be the more powerful factor than the change of viscosity, resulting in a reduced chemical non-homogeneity as compared to centrifzgal castings poured at 1,580°C. Tabulated data on non-homogeneity values for a centrifzgal casting weighing 700 kg with a length of 3.6 m, produced once in a metallic mold and the second time in a mold lined with quartz sand indicate a lessened degree of non-homogeneity in the latter case which might be explainned by a certain deceleration of the growth of the metallic skin

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The chemical non-homogeneity ...

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during pouring. Investigations on the effect of the rotational speed of the mold on the degree of non-homogeneity lead to the conclusion that high rotational speeds (1,600 rpm) yield the best results. The highest degree of non-homogeneity was observed at low rpm rates (between 300-600). This depends on the reduced wash-out rate of the liquation additives, moving from the peripheral zone to the central zone in connection with a reduced time lapse for the liquid melt to gain the same rotational speed which the mold had. Conclusively the author recommends the following methods to reduce the chemical non-homogeneity in centrifugal castings: to increase the rotational speed of the mold and to impede the growth of the skin on the walls of the mold during the filling process(by proper lining and heating the walls of the mold, and by increased pouring temperatures. There are 2 figures, 5 tables and 1 Soviet-bloc reference.

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21932 5/128/60/000/001/003/007 The chemical non-homogeneity... A133/A127 Legend to Figure 1: Tabazza 4 () Солержение минирующих влементов в % (1) Wall of the mold 2 Степень жимиче-ской неод-мородно-сти в % (2) Solidified skin of the metal Tennepary Samena C в периферийной in neurpemuos (3) Two-phase zone in zone iph mold cent.zone (4) Mother liquid P CPS Центробеж-0,033 0,033 0,037 0,042 0,043 0,040 CAPARO USABRINUM o I pm Затвердевшая корка Двукфазная зона Центробеж-1560,0,34 1550,0,36 1550,0,35 0,032 0,036 0,034 0,034 0,036 0,040 0,060 0,053 0,019 0,050 0,053 0,053 of Manage Стационар- 1550,0,36 0,040 Выстаті 1560,36 0,045 0,039 Legend to Table 4: (1) Content of liquation additives in % Фиг. 1. (2) Degree of non-homogeneity in % Card 5/5

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18(7) AUTHOR:

Reutov, N.N., Engineer

SOV/128-59-6-9/25

TITLE:

Hydrodynamic State of Metal and its Influence on the

Macro-structure of Centrifugal Castings

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 6, pp 22-27 (USSR)

ABSTRACT:

As a basic technological factor determining the quality of centrifugal castings, usually the rotationary speed of the metal die is taken. Practice has shown that from same type alloy and the same optimum number of rotations different types of crystallization structures of the casting are received in case other tech-nological factors are altered. The author made his experiment on changes of the macrostructure of centri-fugal castings under the influence of the heterogeneous hydrodynamic state of the metal. The experiments have been made with metal dies (of an inner diameter of 200 to 190 mm and of a length of 245 mm), and a water content of 2 Liter. By the aid of a light float of celluloid, it was possible to observe that during 1,200 to 800 rpm the rotations of the float were

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Hydrodynamic State of Metal and its Influence on the Macro-structure of Centrifugal Castings

equal to the rotations of the metal dies. Additionally, the lower speeds are described. In this connection it is established at what time the liquid has a laminar or a turbulence flow. The results are listed in tables. The author assumes that these results are valid too for liquid metal and therefore he made experiments with zinc and with chromium-nickel- steel. For these experiments he used the rules set by Hering and Sauerwald ("Zeitschrift Fuer Anorganische und Allgemeine Chemie", Nr 2, 1935). The change of temperature changes the macro-structure of the centrifugal casting too. Several micro-photos show the different types of crystallization. Conclusions: During the process of crystallization of the casting in the rotating metal die, the liquid metal might have different hydrodynamic states. There is a direct dependence between the hydrodynamic state and the macro-structure. There are 1 graph 3 diagrams 7 tables, 8 photographs, and

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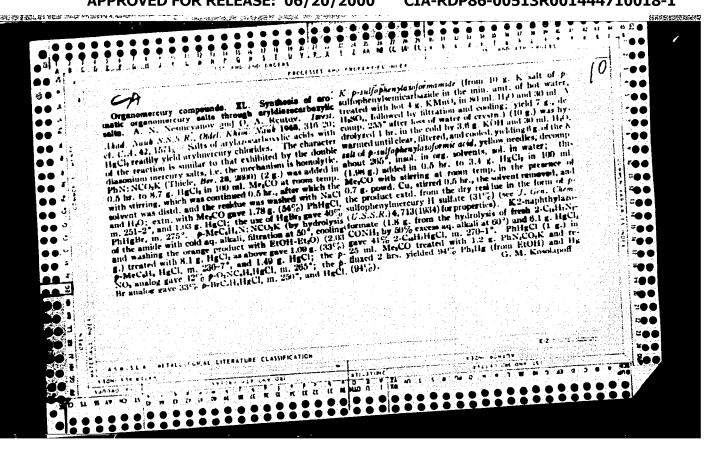
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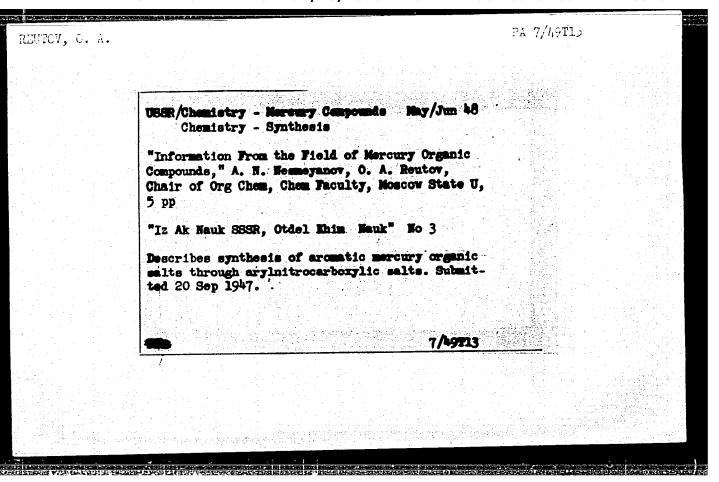
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Hydrodynamic State of Metal and its Influence on the Macro-structure of Centrifugal Castings

6 references, 4 of which are Soviet, and 2 German

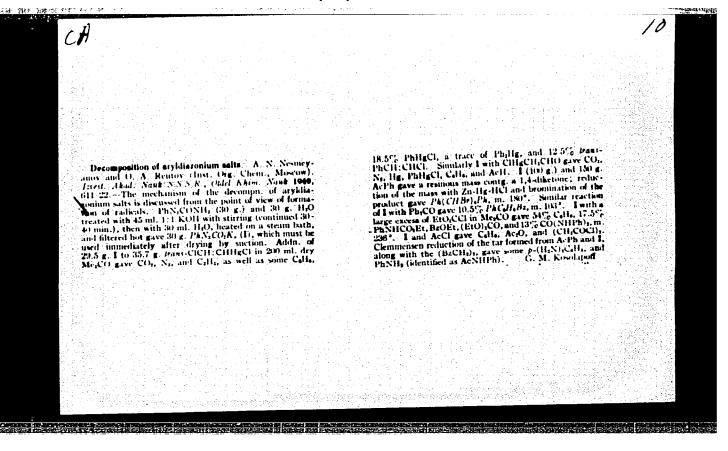
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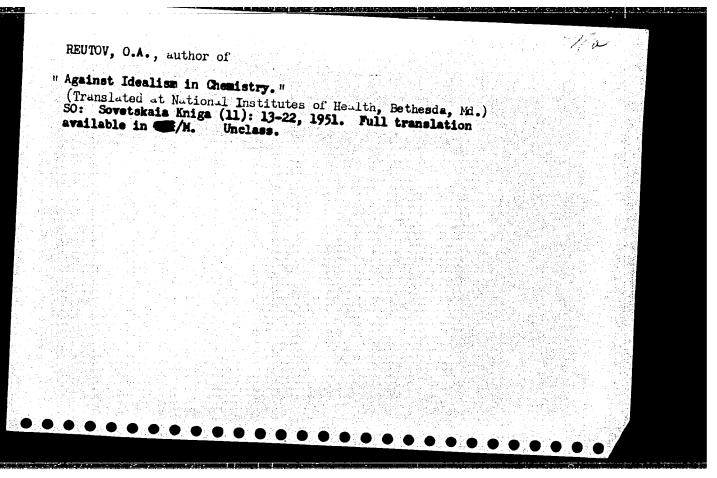


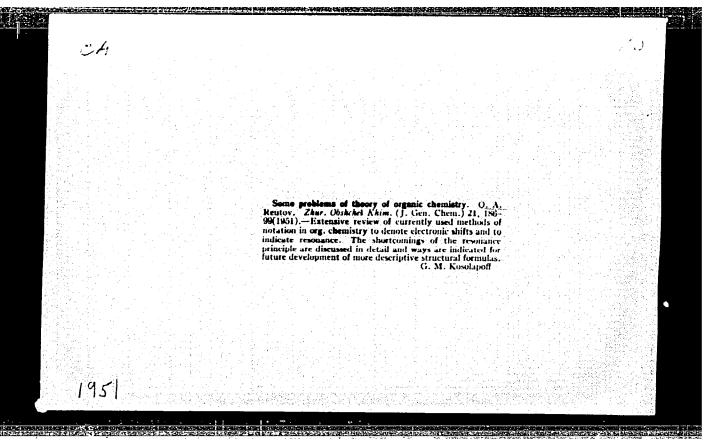
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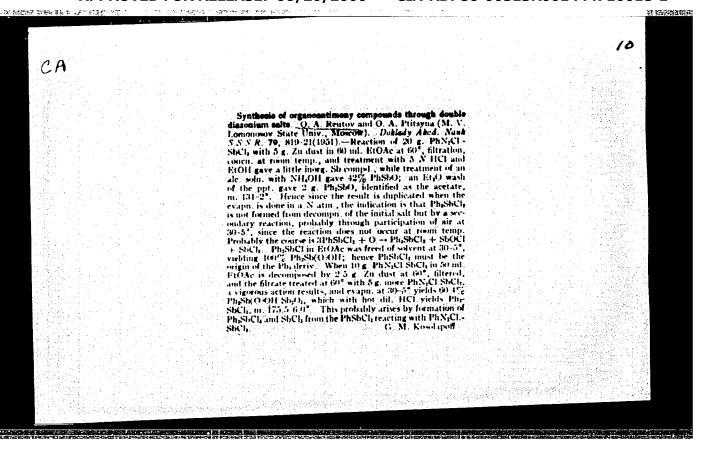
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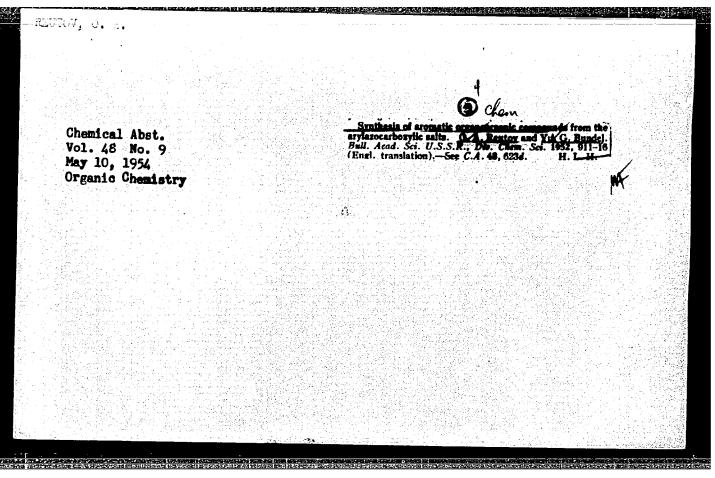




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REUTOV, O.A. 148 28 Jan 54

Synthesis of aromatic organoarsenic compounds from the arriancerboxylic selfs. O. A. Reutov and Yu. G. Bundel. Izvest. Akad. Nauk S.S.S.R.; Odd. Kniii. Nauk 1932, 1941—8; cf. C.A. 43, 171b; Kocheshkov and Nesmeyanov. C.A. 30, 4833.—Arr.CO₂K. reacted with AsCl, in the presence of air yielding double salts of ArN₂Cl and AsCl. Reaction of ArN₂CO₂K with AsCl, in Me₂CO or AcOEt yielded arsenicals in total yields up to 80%, ArAsO. (Ar₂As)₂O₂, and ArAs(OH)₂ being isolated. PhN₂CO₂K (7 g.) added over 10 min. at room temp. to 10.2 g. AsCl₁ in 150 ml. dry Me₂CO, stirred 20 min., the inorg. ppt. (4.a g.) filtered off and the filtrate concd. in racuo, the residue treated with 2 portions (30 and 15 ml. resp.) 1:1 HCl and 15 ml. H₂O, then heated to 90–100° with 15 ml. 40% KOH, filtered hot, gave 0.8 g. insol. (Ph₂As)₂O₂O, m. 80–80°. The filtrate from this treated with sechang with H₂O amounted to 0.15 g., for a total yield of 21%; m. 88–80°. The filtrate from this treated with satd. aq. NH.Cl gave 2.6 g. (42%) PhAsO, m. 127–30° (from CH-Cl₂Et₂O). p-MeC₂H₄N₃CO₂K (9.5 g.) and 12.5 g. AsCl₃ allowed to react as above and treated similarly, gave after treatment with 30 ml. 50% KOH a ppt. which yielded on washing with H₃O 1.2 g. (20%) pure [(p-MeC₂H₄),As]₂O₃ m. 103–5° (from petr. ether). The filtrate with satd. NH₄-Cl gave 32% p-MeC₄H₄AsO₂, m. 167–9° (from CHCl₃), and 47% in p-H₂C₄H₄AsO₃, m. 239–40° (from EtOH). O. Similarly 4.5 g. p-BrC₄H₃N₃CO₅K similarly gave 64% p-O₃NC₄H₄H₄(OH)₂, decomp. on heating, purified by pptn. with HCl from hot coned. KOH. The purified by washing with Et₂O-EtOH. Reaction of 3.7 g. 2,4,6-Br₃C₄H₃N₃CO₅K with 4.7 g. AsCl₃ as above, followed by filtration, conen. and treatment with 50 ml. 1:1 HCl and was purified by washing with Et₄O-EtOH. Reaction of 3.7 g. 2,4,6-Br₃C₄H₃N₃CO₅K with 4.7 g. AsCl₃ as above, followed by filtration, conen. and treatment with 50 ml. 1:1 HCl and

extn. with Bt₇O gave 36% 2,4,6-Br₈C₆H₃A₅O, m. 219-20° – (from EtOH). Soin. of 10 g. PhN₂Cl-FeCl₈ in least vol. Me₃CO treated with 8 g. A₅Cl₄, cooled and dild. with Et₂O, gave a ppt. of crude PhN₂Cl-A₅Cl₄, decomp. 89-90°, which was unstable on storage the material was contaminated with considerable (PhN₂Cl)₁. A₅Cl₆. To 0.15 g. 2,4,6 lb₁C-H₂A₅Cl in 1 ml. EtOH was added hot 0.13 g. HgCl₂ in 1.5 ml. EtOH followed by 0.75 ml. hot 5N NaOH; after 2 min. boiling the Hg was sept. and the cooled filtrate dild. with 7 ml. H₂O gave sym-tribromobenzene, m. 118-20°, with 7 ml. H₁O gave sym-tribromobenzene, m. 118-20°, with 7 ml. H₂O gave sym-tribromobenzene, m. 118-20°, indicating a deviation from the normally expected formation of R₂Hg. To 23 g. AsCl, cooled to -15° in MePh was added 8 g. PhN₁CO₂K; no gas evolution took place. The temp. was allowed to rise to 20° while air was percolated through the mixt. (under these conditions reaction begins at 5°). After completion the ppt. of KCl, AsOCl and PhN₂Cl.AsCl₃ was sepd. (5.5 g.), washed with C₂H₆, and PhN₂Cl.AsCl₃ extd. by means of 20 ml, Me₂CO and the soln. 'reated with 3 g. HgCl₂ in Me₂CO, yielding PhN₂Cl.HgCl₃, de-

comp. 100-30°. Its suspension in Me₂C', or BtOAc was readily decompd. by Zn dust, which phenomenon was also observed on addn. of Zn dust to the reaction mixts. of Ar-N₂CO₂K with AsCh. If 5 g. ?h\(\frac{1}{2}\)CO₂K in 100 ml. Me₂CO₃ is kept under N stream and is treated with 7.6 g. AsCl. in Me₂CO, a test sample shows no reaction with Zn dust, but even a brief contact with air causes this reaction to appear. even a prier contact with air causes this reaction to appear. Thus the synthesis of organoarsenicals by this method can be outlined as: ArN₁CO₂K + AsCl₁ → KCl + ArN₁CO₂CO₂AsCl₂ → N₂ + CO₃ + ArAsCl₂ArAsCl₃ + H₁O → ArAsCl₃ArAsCl₃ + H₂O → ArAsCl₃ArAsCl₃ + AsCl₃ → Ar₂AsCl₃ + 2N₃ + 2CO₂ + 2KCl; 2 Ar₃AsCl₃ + H₂O → Ar₃AsCl₃ + H₂O → Ar₃AsCl₃ + H₃O → Ar₃AsCl₃ + Ar₃AsCl₃ + H₃O → Ar₃AsCl₃ + Ar₃AsCl₃ + H₃O → Ar₃AsCl₃ + Ar₃AsCl₃ + Ar₃AsCl₃ + Ar₃Cl₃ + Ar₃AsCl₃ + Ar₃AsCl₃ + Ar₃AsCl₃ + Ar₃AsCl₃ $(Ar_2A_3)_2O$. G. M. Kosolapoff.

Full translation in /M

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- Antimony Compounds	USSR/Chemistry - Antimony Compounds Jan/Peb 52	- Antimony Compounds	- Antimony Compounds	- Antimony Compounds
- Antimony Compounds	- Antimony Compounds	- Antimony Compounds	- Antimony Compounds	- Antimony Compounds
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	一日 こうしょく しょう なきがない あいち しゅいかい しょしゅ しゅいしゅんか よりかいかい ファイチャ なれいさい はずかななない ほしゅう			
	一日 アンドラ こうしょう ないかん かいかん かいしゅん かいかい かいかい かいしゅう はい かいしゅう はない ないない ないない ないしゅう かいかい かいしゅう かいかい かいかい かいかい かいかい かいかい かいかい かいかい かい			一日 アンドラ こうかい おおおき おおり はいかい こうしゅう かいさいかん かいしゅうかい かかがかける きなななななない しゅうか
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	10 11 11 11 12 13 13 13 13			一日 アンドラ こうかい かいかい かいきゅう しゅう アンドラン・アンドラン かいしん いちがない かななななななななななななななななななない ないしん
	コート・コード アイ・アン かんかん かいかい かいかい しゅう かいかん ないしゅう まいしゅ からしゅう ないない ないしゅう アイト・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・アイ・			サード・ドレー こうかん ひょうし 地名 コール・ロー・コー・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・
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一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		그는 그 모든 그 그 그 그런 경기에 가지 못 하지 그런 그 그런 그	10 11 11 11 11 11 12 13 14 15 15 15 15 15 15 15	・ アー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
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一、こうこうこうできる きぎんの 多数をおんに かららく しょうじゅう きんじゅうしゅう コフェザーシス おもり おばななない しゅうか		コート・コード かいかい かんきょう かんしゅうちょう しゅうしゅんしゅ しゅう あきばれる かん あきばる こくしん		一个一个一个一个一定的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一
一日 しょうしょう かきぎょう 多数を見 たてものの しんしょう さんじゅんかい しゅうかい しゅうない をおおかける はななななない はっぷ		一个一个一个一个一种,我们有一个一种"我们的",我们们也有一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		
一个一个人的人的 医多种多种多种多种 化多种合物 化二苯基苯酚 经经济的 医多种性 医多种性 医阿拉特氏试验检检检检检检检验		一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
1000000000000000000000000000000000000		一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
一、こうから、これは他のないないないのであった。 かいかい かいかい アン・オール・オール・オール・オール・オール・オール・オール・オール・オール・オール		1997年,1997年,1997年,1997年,1998年	一个一个一个一个一种的情况,可是是对人的人,也是不是一个一个一个一个一个一个一种,我们也不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
一、こうから、これの関係の関係を関係しているのです。 できない 地名 アンドラン・ファスト 大学 はていない はないない		1997年,1997年,1997年,1997年,1998年	一个一个一个一个一种,就是一个一种"更有的",就是一个"有的"的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	
一个一个人的人的 医多种多种多种多种 化多种合物 化二苯基苯酚 经经济的 医多种性 医多种性 医阿拉特氏试验检检检检检检检验		一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
一个一个人的一个的话是有最后的情况是一个人的人的人的,他们也是一个人的人的人的人的,他们就是我们的话,我是我们的人的人的人们的人的人的人的人,我们们就是我们的人		1997年,1997年,1997年,1998年	一个一个一个一个一种,我们有一个一种的人,我们们也没有一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
1900年,1900年		1997年,1997年,1997年,1998年	1997年,1997年,1997年,1998年	
1900年,1900年				
1900年,1900年				
1900年,1900年				
1900年,1900年		1997年,1997年,1997年,1998年	1997年,1997年,1997年,1998年	
こうしょう しょう のきのない 多数を見 しょくさく しんしょう かんじょうしん アン・ファスト でんぱん はなななななない しゅうか				计分子 人名英格兰 医多种 计分类记录 医多种性结节 人名英格兰人姓氏格兰的变体 医多种乳毒素 经未通帐 医水杨二氏
1000000000000000000000000000000000000				サード・コード アン・デンタ かいかい 地位 かいきょう しゅうしゅ アントランド しゅうじゅうき かいかいき かんしゅい
1000000000000000000000000000000000000		그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	コート・コート こうてきがく アスティー ラス・ファイン ひとうじゅん かくしん しょうしょうけんかけばない 佐女 ラン
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・ アンドン かっしゅう まかが 特別的な からかい かかし マンド・アン・アンドラ ファン・マーキ and the profession of the	かいしょう しょうじ まち はっぱん かば しゅうじゅう しゅうしき ひこう シャップ アンティン・ディン・ディン・ディン・ディン・ディー かいかい かいかい かいかい かいかい かいかい かいかい かいかい かい			
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	コード・コンド・スク きょうじん 多数な タイト かんかい とうかく かんりんかん アンドラン・マンダン もずしな しんげきかななしないほう かい			- 19 1 - 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	コード・コンド・スク ききんじん 多数な ベイス かんかん しゅうさん なんか アンプラン・ファダラ かんじゅう ほんげんかんせんじゅう 地			- Particle 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	コード・コンド・スク きょうばし 多数な ベイ・シング・イン・ファーマスト ながな トラン・マン・ネット 大き 記され 水理学の発生的 フォール			- Particle 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	コード・コンド・コング きょうじゅうきいき はいこんかん かいしゅう かんじゅうかん またし ひか アファステン なればな にっぽんかかにもなっぱ しゅ	サード・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・	サード・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・	
	コード・コンド こくび ききんじん 多数な ベイス かんかん しょうかん かんか さかいしかい ラフ・ボン かればな ほんげんかんほうほうほう ほ			- Particle 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	コード・コンド・スク きょうじょうじゅ ベート・アン・ド・ド・ド・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・			1000000000000000000000000000000000000
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	コード・コンド・スク ききかい かきがな ベース かっかい とっき こうかい ないの きつしかい ラフ・ボー もず おくけいぎゅうかんせいじゅう ほ	- The State Of the State Sta	- The State Of the State Sta	- Paramanana 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	コード・ファー・アン はほどじゅうかん ハール・ハイ・アン・ド・マスト なかがし カンドマン・マース からが あさい なほうかなほうかくほう い	- 1900 -	- 1900 -	
	コード・ファー・アン はほどじゅうかん 化さい ちゅうかい アンドラー ラスト なかが トランドグラ トランス かられなな にんほうかんせいちゅう い	- The Control of State (1985) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- The Control of State (1985) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	コード・ファー・スターのほうごう できむかん イナル・ハイ・アン・アー・アン・アン・アン・アー・スト あっちゃ ありに ほうほうかん 自己 はっしい	- The Control of State	- The Control of State	- The Second S
	コード・ファー・スターのほうごう できむかん イナル・ハイ・アン・アー・アン・アン・アン・アー・スト あっちゃ ありに ほうほうかん 自己 はっしい	- The Control of State	- The Control of State	- The Second S
	コード・ファート かいきゅう かんかん かんかい かいかい かいかい かんかい こうしゅう しゅうない ちゅうかん はない かんばん ないない ないしゅうしゅ	□ 1000 1000 1000 1000 1000 1000 1000 10	□ 1000 1000 1000 1000 1000 1000 1000 10	1000000000000000000000000000000000000
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	그 그 그 그 그 그 그 것 않는 사람들은 살 사람들은 사람들은 사람들이 가지 않는 것 같은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들	- Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1000000000000000000000000000000000000
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	アー・コンド こうちょうきん ないきじん タイト かんかん しゅうさん かんか ランション ファイス かくないない はなななななななない しゅうほ	- The Second S	- The Second S	- Tourney State (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	그 그 그 그 그 그 그 것 않는 사람들은 살 사람들은 사람들은 사람들이 가지 않는 것 같은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들	- Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- Part 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1000000000000000000000000000000000000
	コート・コンド・スク かきかいしゅ 野家 タイト かいかい しょうかい かいか すいしょかい トランス かいない しゅうない はんけいじゅうかんせいほうほうほ	- The Control of State (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- The Control of State (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- The Control of State (1985) 11 12 12 14 14 14 14 14 15 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
	コート・コンド・スク かきかいさいきじゅ ベートルトル・ハー・コー・スプト かんか トランプない トラトない 気がらればない はななななななななない			1000000000000000000000000000000000000
	コード・コンド・スク なきかいさいきじゅ ベード かったい しょうかい かいか しんかいかい トラ・ステン 特別 見る はなけるのななになって しゅ			- The Control of State (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	サード・コンド・スターのほう 地名 多数多数 たいかいさん というしょうこう ちかかいのう ファイン・ダン きゅうない 行行 のななない かっぱしん			一 こうしょう かくき おもの かながな ロール・スペー アンド・スタン アンボット・ステム でき 地名 はななななな おりゅうき
	コート・ファイン かっきょう はか である おんにん いいこく かいしょうしょ かんかい かっしょう しゅうしゅ あきだい ほしゅぎもち 内にはしな			1000000000000000000000000000000000000
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REUTOV, O. A.

USSR/Chemistry - Structural Theory

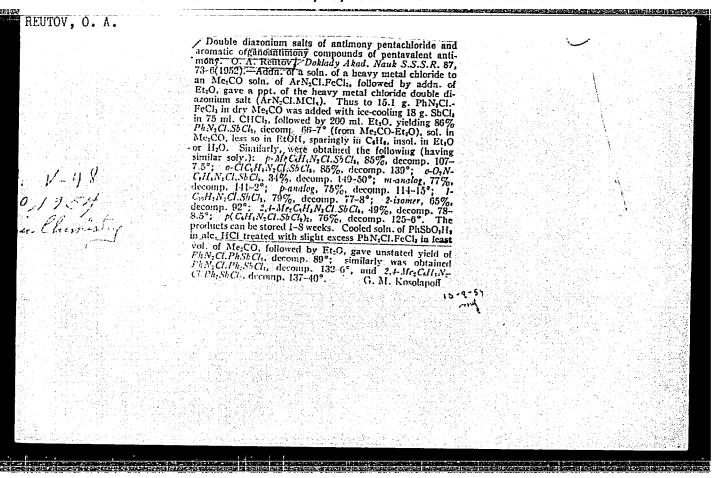
Apr 52

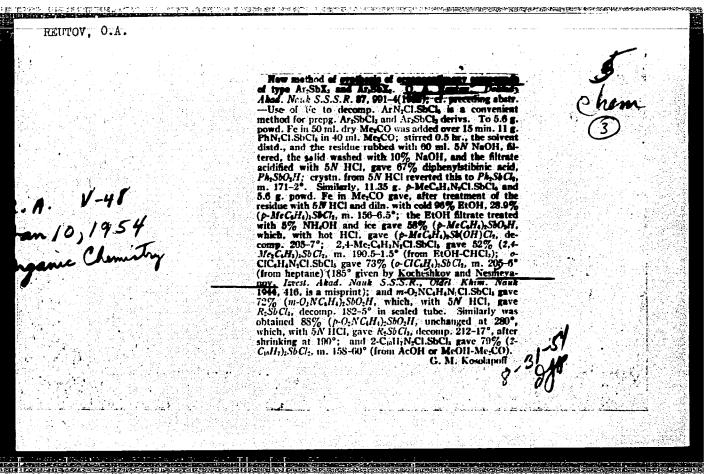
"Concerning the Problem of Mutual Influence of Atoms on Each Other in Molecules and the Conjugation of Bonds," O. A. Reutov, Moscow State U imeni M. V.

"Zhur Fiz Khim" Vol XXVI, No 4, pp 598-603

Discusses D. N. Shigorin's article "Some Problems of the Chemical Constitution of Molecules," "Zhur Fiz Khim" Vol XXV, No 6, 1951. Citing numerous examples of chem reactions, disputes Shigorin's view that there is no conjugation either between single and double bonds or between double bonds.

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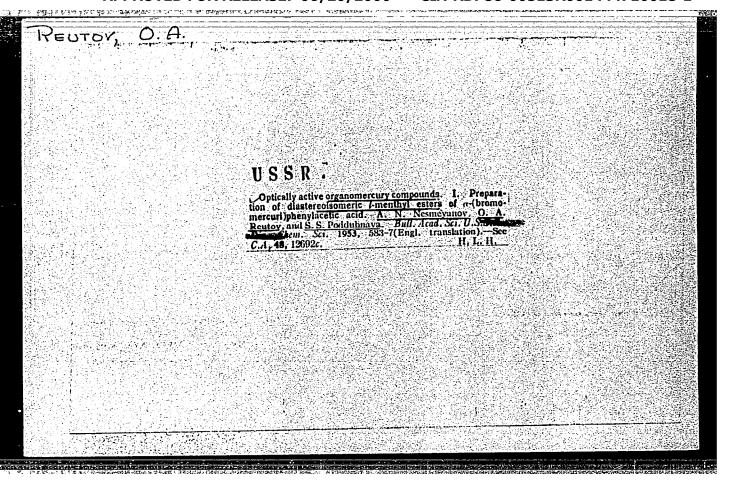
ELDERFIELD, Robert Cooley, 190%—; YUR'YEV, Yu.K., professor [redaktor]

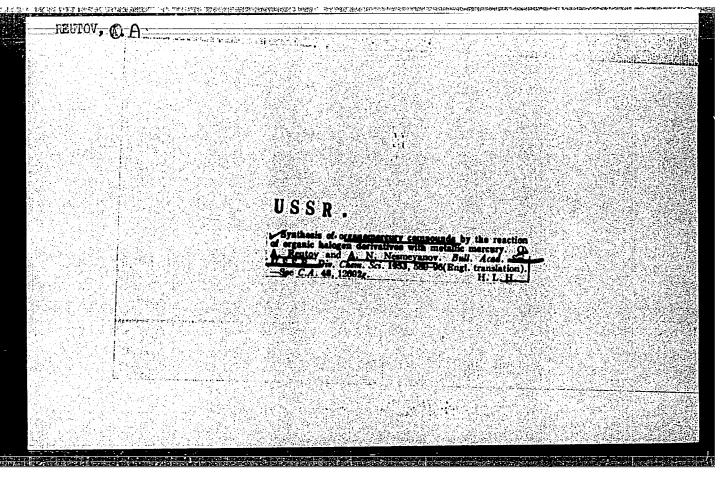
LUTSENKO, I.F.: HEUTOY, O.A.: KOCHEFKOV, N.K. [redaktors].

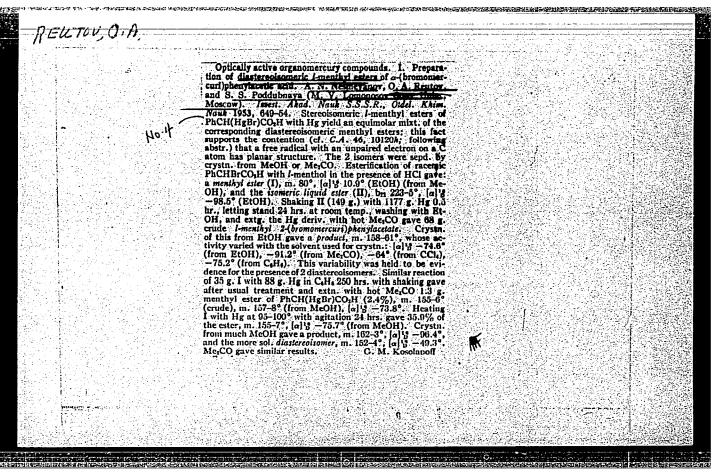
[Heterocyclic compounds] Geterotsiklicheskie soedineniia. Perevod s angliiskogo I.F.Lutsenko, O.A.Reutova, N.K.Kochetkova, pod red. IU.K.IUr'eva.

Moskva, Izd-vo inostrannoi lit-ry, 1953—. (MLRA 6:8)

(Heterocyclic compounds)







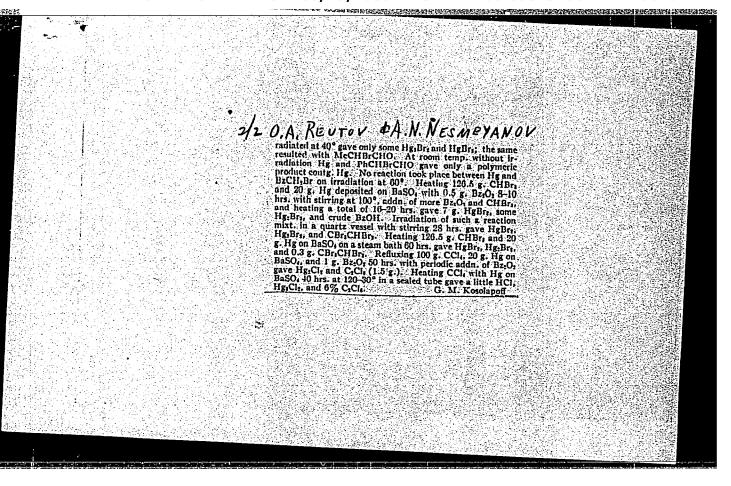
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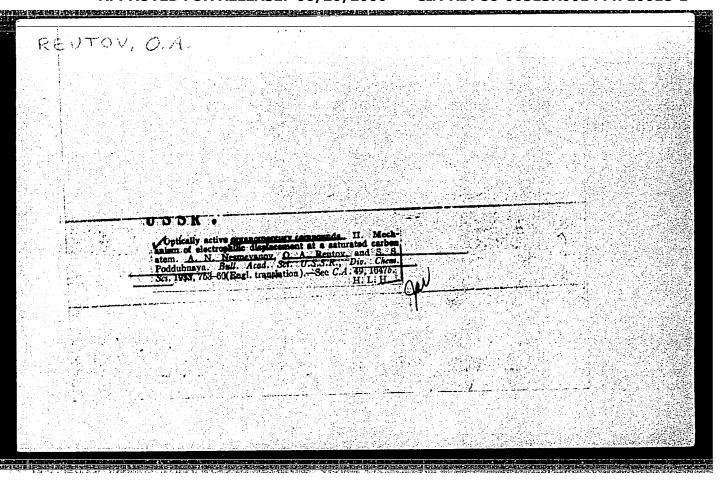
CIA-RDP86-00513R001444710018-1

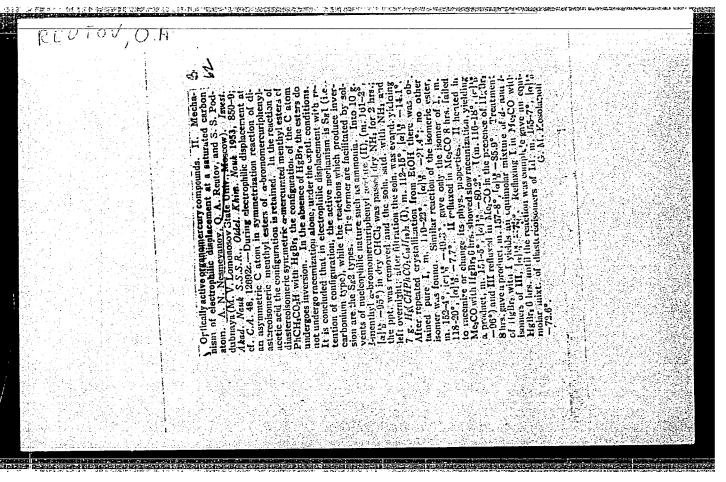
Synthesis of arganomercury compounds by the reaction of organic haloged Genvarives with mealing innecessy.

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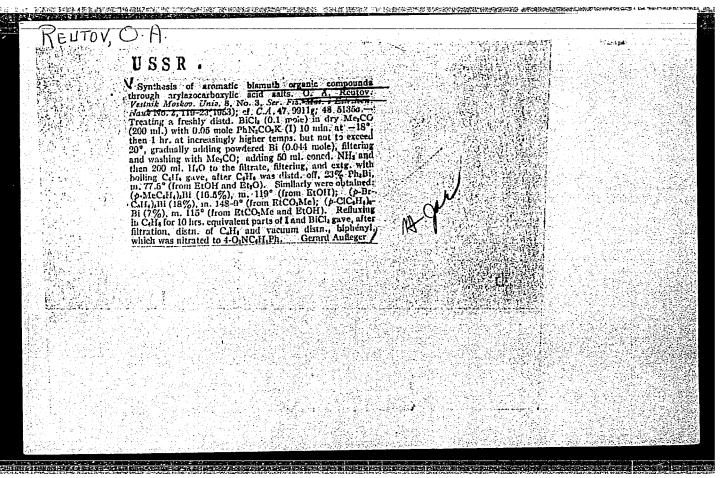


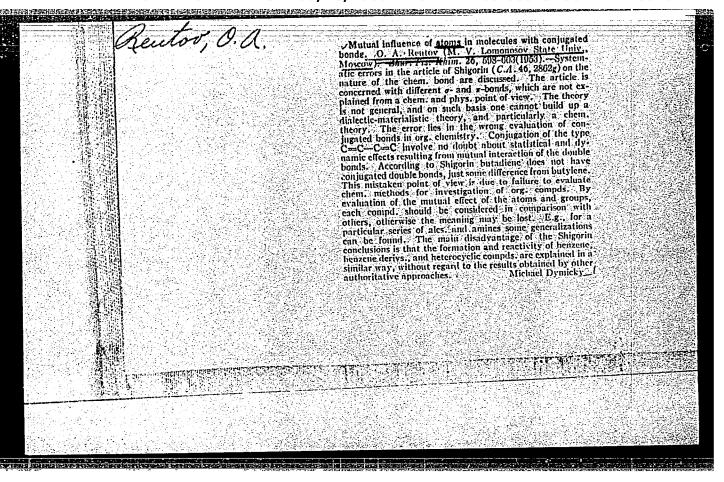


"The Stereochemistry of Electrophylic Replacement of a Saturated Carbon Atom," a paper given at the All-University Scientific Conference "Lomonosov Lectures",

Translation U07895, 1 Mar 56

Vest. Mosk. Un., No.8, 1953





REUTOV, O. A.

USSR/Chemistry - Structural Theory

Sep 53

"Problem of the Development of the Theory of Chemical Structure," O. A. Reutov

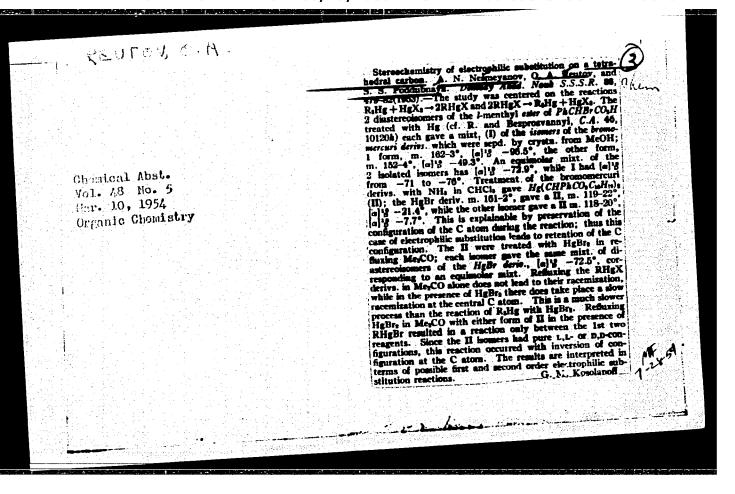
Zhur Fiz Khim, Vol 27, No 9, pp 1427-1429

D. N. Shigorin's criticism of the concept of conjugation of bonds on methodological grounds is unjustified. However, conjugation must be interpreted as due to mutual influence of atoms rather than to a process of interaction of bonds composed of valency electrons. It would be of advantage to abandon the assumption that bonds must correspond

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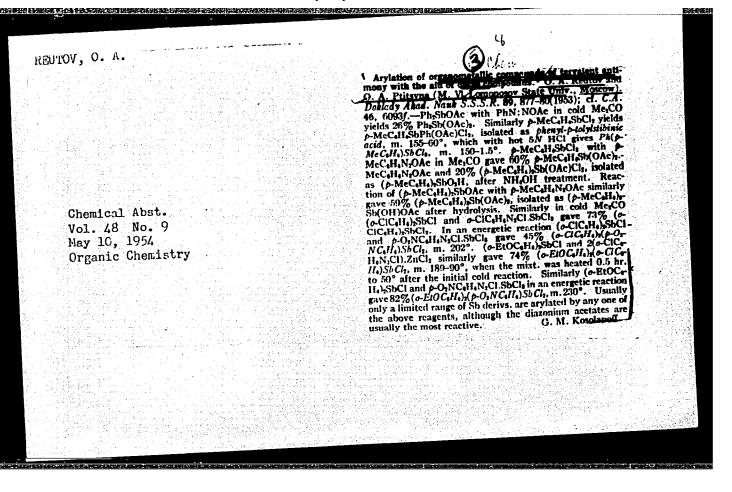
to valencies expressed by whole numbers. However, assignment of fractional values to bonds would make the writing of structural formulas difficult.

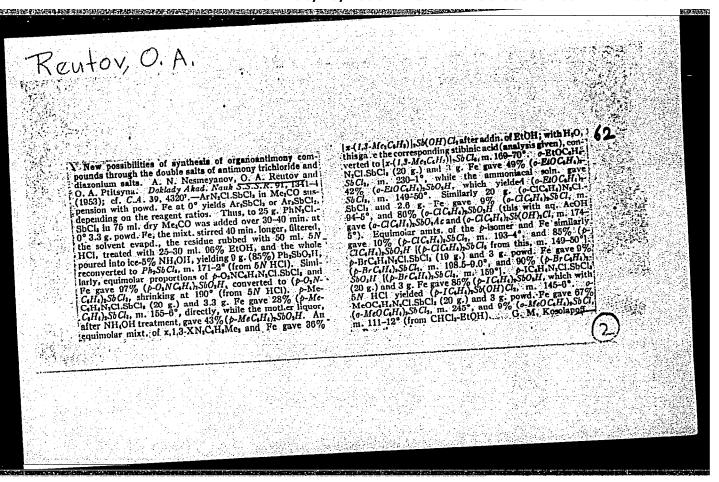
1 - 181/2	REUTOV, O. A.; PTITSYNA,	O. A.	र्श ्टर ा
2. 4.	USCR (600) Arylation	of trivalent antimony with the aid of diazo	
7.	Arylation of metalorganic compounds, Wokl. AN SSSR		
	. Monthly List of Russian	Accessions, Library of Congress, April 1953, Uncl	assified.



"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001444710018-1





REUTOV, O.A., professor; MMZENTSEV, V.A., redaktor; NEGRIMOVSKAYA, R.A.,
teknnicheskiy redaktor

[Organic systhesis] Organicheskii sintez. Izd. 3-e. Moskva, Gos.
izd-vo teknniko-teoret. lit-ry, 1954. 62 p. (MLRA 8:7)

(Chemistry, Organic—Synthesis)

TERENIN, A.N., akademik; KONDRAT'YEV, V.N., akademik; KNUNYANTS, I.L., akademik; KABACHNIK, M.I.; SCHOLOV, M.D., doktor fis.-mat. nauk; neurov, O.A., doktor khimicheskikh nauk; MOSEVICHEVA, N.I., takhnicheskiy redaktor

[Status of the theory of chemical structure in organic chemistry]
Sostoianie teorii khimicheskogo streeniia v organicheskoi khimii.
Noskva, Isd-vo Akademin nauk SSSR, 1954, 122 p. [Microfilm]
(MIRA 7:10)

1. Ghlen-korrespondent AM SSSR (for Kabachmik) 2. Akademiya nauk
SSSR. Otdeleniye khimicheskikh nauk
(Chemical structure) (Chemistry, Organic)

USSR/Chemistry

Synthesis

Card

: 1/1

Authors

: Nesmeyanov, A. N., Reutov, O. A., and Knol', P. G.

Title • Synthesis of anylstibine acids fr

s Synthesis of arylstibine acids from binary diazonium salts of antimony pentachloride

pentachloride

Periodical

: Izv. AN SSSR, Otd. Khim. Nauk., 3, 410 - 417, May - June 1954

Abstract

The formation of arylstibine acids, resulting from the decomposition of binary diazonium salts of antimony pentachloride with cuprous chloride in a medium of organic solvents, was investigated. The homolytical, but not a free-radical nature of the reaction leading to the formation of arylstybine acids, was established by the nature of the secondary reaction products. The three stages bringing about the formation of arylstibine acid are described. Nine references: 6 USSR, 2 German, 1 USA. Tables.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : July 1, 1953

CIA-RDP86-00513R001444710018-1 "APPROVED FOR RELEASE: 06/20/2000

AID P - 1017

Reutor, O.H.

Subject

Card 1/1

USSR/Chemistry

Pub. 119 - 2/8

Author

Reutov, O. A.

Title

Line of the Control o Homolytic reactions in the chemistry of organometallic

compounds

Periodical

Usp. khim., 23, no. 4, 426-478, 1954

Abstract

Homolytic reactions resulting in the formation of organometallic compounds are reviewed, namely: the interaction of alkyl halides with metals, of acyl peroxides with metallic mercury, of free radicals with metals in the gaseous phase; synthesis via diazo compounds; formation by addition of metals to unsaturated and aromatic compounds and of halides to unsaturated compounds; formation by reduction on cathodes and by mercuration of aromatic compounds. Homolytic reactions of organometallic compounds (thermal decomposition, photochemical reactions, electrolysis and reactions initiated by catalysts) are also covered.

Institution:

None

Submitted

No date

REUTOV, O. A.

USSR/Chemistry Synthesis methods

Card

: 1/1 Pub. 151 - 33/35

Authors

Reutov, O. A., and Kondratyeva, V. V.

Title

Synthesis of antimony-organic compounds of the Ar2SbX3 and Ar3SbX2 type from binary diazonium salts of antimony pentachloride

Periodical

2 2hur. ob. khim. 24, Ed. 7, 1259 - 1265, July 1954

Abstract

A new method, for the synthesis of hitherto unknown binary diazonium salts of SbCl5, is described. Also described is a method for the synthesis of antimony-organic compounds of the Ar2SbX3 and Ar3SbX2 type from the binary salts of SbCl5. The substances formed during the decomposition of binary diazonium salts of SbCl5, by pulverulent iron in acetone, are listed in table. Two USSR and 1 USA reference.

Institution

State University, Moscow

Submitted

February 13, 1954

CIA-RDP86-00513R001444710018-1 "APPROVED FOR RELEASE: 06/20/2000

RELLTOV, O.A.

USSR/Chemistry - Salts

Card 1/1

: Pub. 22 - 25/44

Authors

Reutov, O. A., and Markovskaya, A. G.

Title

Binary diazonium salts of aryl-antimony tetrachloride

Periodical: Dok. AN SSSR 98/6, 979-982, October 21, 1954

Abstract

The results obtained during the synthesis of a large array of binary salts of the ArSbCl4-Ar'N2Cl type, are tabulated. It was established that binary salts have an approximately uniform solubility and can be stored for many weeks without any noticeable decomposition. The physical properties of the synthesized salts, are described. One USSR refer-

ence (1952). Table.

Institution:

The M. V. Lomonosov State University, Moscow

Presented by: Academician A. N. Nesmeyanov, May 26, 1954

USSR/Chemistry - Synthesis

Card 1/1 Pub. 22 - 22/40

Authors

Title

Reutov, O. A.; Markovskaya, A. G.; and Lovtsova, A. N. Binary diazonium salts of diarylantimony trichloride

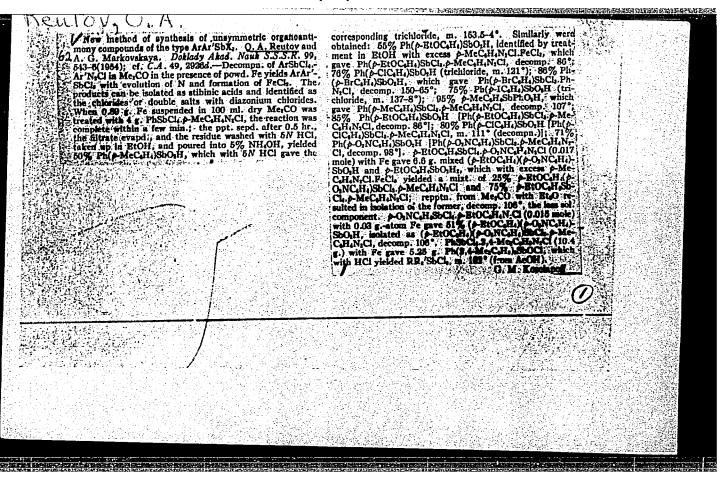
Periodical : Dok. AN SSSR 99/2, 269-272, Nov 11, 1954

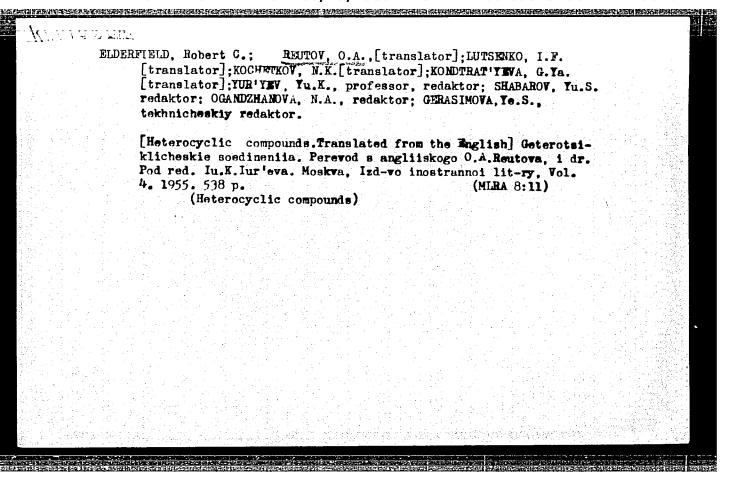
Abstract : The derivation of binary diagonium salts of the

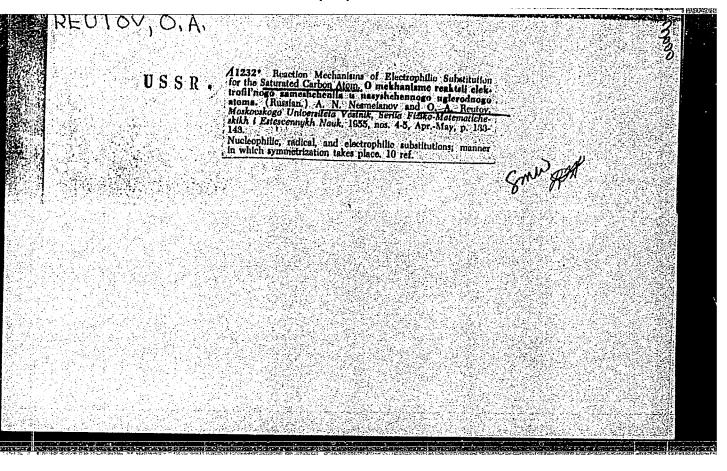
The derivation of binary diazonium salts of the Ar2SbCl3 · Ar'N2Cl type, as a product from the interchange reaction between binary diazonium salts of ferric chloride and diarylantimony trichloride, is described. The entire reaction process is explained. Results obtained from the synthesis of numerous other binary diazonium salts, of the above mentioned type, are tabulated. Detailed data regarding the solubility of these salts are included. Two USSR references (1952 and 1954). Table.

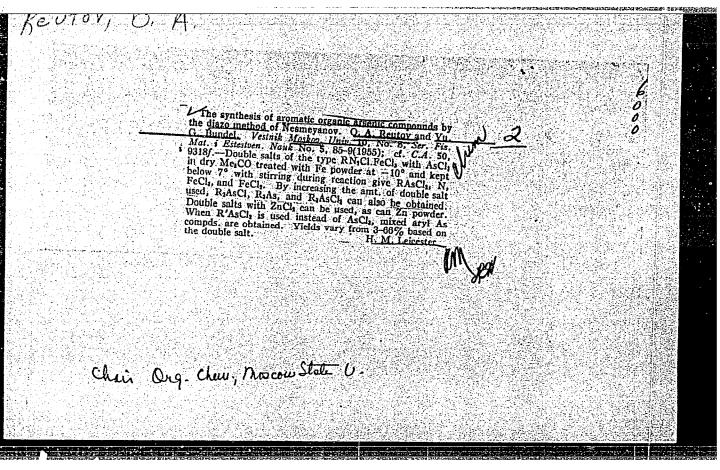
Institution : The M. V. Lomonosov State University, Moscow

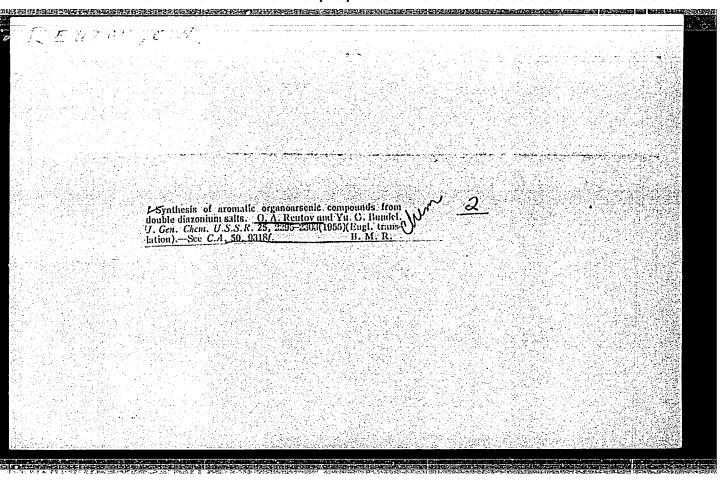
Presented by : Academician A. N. Nesmeyanov, June 24, 1954

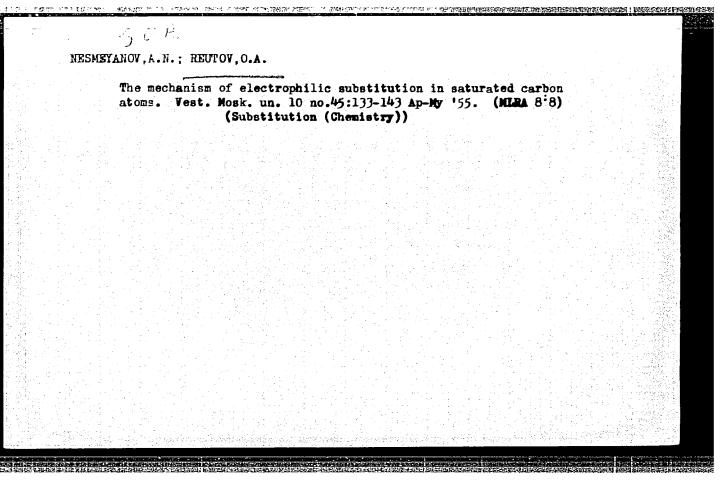


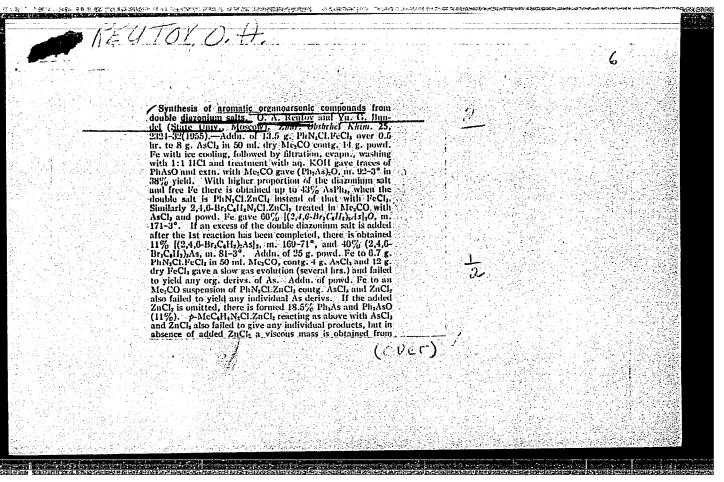


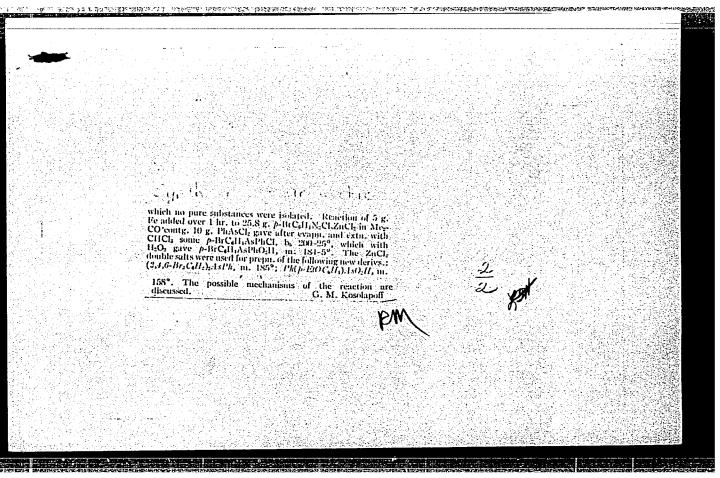












REUTOV, O.

Present state of the theory of chemical constitution in organic chemistry. II. Tr. from the Russian. (To be contd.) p. 58. (Magyar Kemiai Folyoirat, Budapest, Vol. 61, no. 2, Feb. 1955)

SO: Monthly list of East European Accessions (EEAL), IC Vol 4, no. 6, June 1955 Uncl

CIA-RDP86-00513R001444710018-1 "APPROVED FOR RELEASE: 06/20/2000

KEUTH, O.A.

USSR/Chemistry - Free radicals

Card 1/1

Pub. 22 - 26/59

Authors

Reutov, O. A., and Ptitsyna, O. A.

Title

Binary diazonium salts of aryldichlorostibines of the ArSbCl_Ar'N_Cl type

Periodical : Dok. AN SSSR 102/2, 291-294, May 11, 1955

Abstract

The synthesis of binary diazonium salts of aryldichlorostibines was realized by a method previously applied to the synthesis of binary diazonium salts of arylantimony tetrachloride and diarylantimony trichloride. It is shown that the stability of ArSbCl2.Ar'N2Cl type salts depends upon the nature of the Ar' and Ar. Certain substituents in the radical of the organoantimony component were found to decrease the stability of binary salts. Thirteen references: 1 USA and 12 USSR (1912-1954). Tables.

Institution :

Moscow State University im. M. V. Lomonosov

Presented by :

Academician A. N. Nesmeyanov, December 30, 1954

REUTOV, O.A.; MARKOVSKAYA, A.G.; MARDALEYSHVILI, R.Ye.

Kinetics of the decomposition of the double salts p-NC₆H₄SbCl₄.C₆H₅N₂Cl by iron powder. Dokl.AN SSSR 104 no.2:253-255 S *55. (MIRA 9:2)

1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. Predstavleno akademikom A.E.Eesmeyanovym.

(Antimony organic compounds) (Diasonium compounds)

REUTOV. Oleg Aleksandrovich; KOROBITSYNA, I.K., redaktor; MULIN, Ye.V.,
tekhnicheskiy redaktor

[Theoretical problems in organic chemistry.] Teoreticheskie
problemy organicheskoi khimii. [Moskva] Izd-vo Mosk.univ.. 1956.

492 p. (Chemistry, Organic)

CIA-RDP86-00513R001444710018-1 "APPROVED FOR RELEASE: 06/20/2000

REUTOV, O.A. E-1 Theoretical and General USSR/Organic Chemistry. Questions of Organic Chemistry.

Ref Zhur - Khimiya, No. 8, 1957, 26657.

Author

Reutov, 0.A. Academy of Sciences of USSR; Moscow Uni-Inst

versity.

Mechanism of Reactions of Diazocompounds Title

with Metals Resulting in Formation of

Metallo-Organic Compounds.

Izv. AN SSSR, Otd. khim. n., 1956, No. 8, 943 - 950; Uch. zap. Mosk. un-ta, 1956, vyp. 175, 71 - 84. Orig Pub

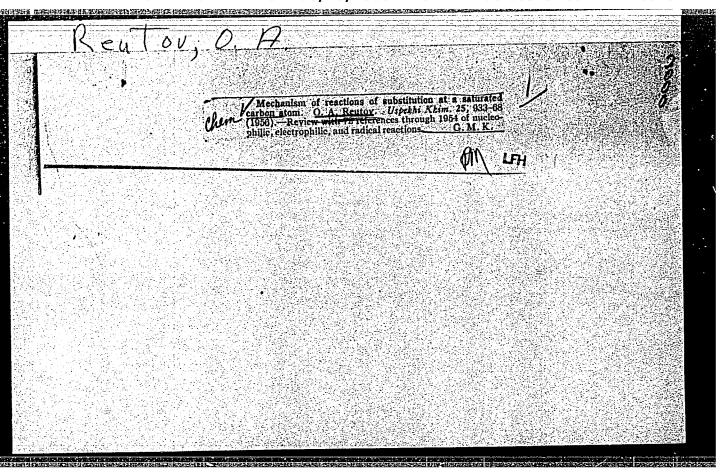
The bibliographical data and the results of Abstract

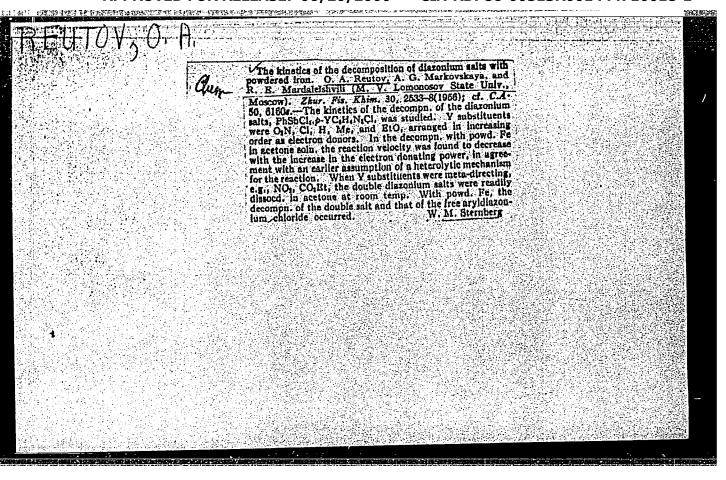
author's work in the field of the synthesis of Sb-organic compounds are discussed. This synthesis was carried out by the dissociation

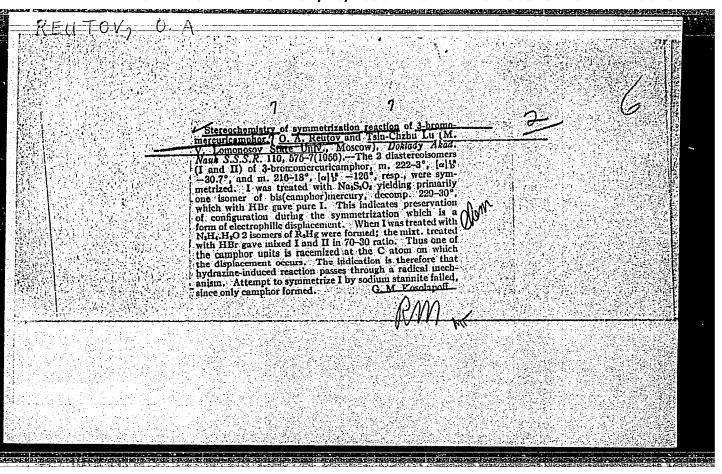
of binary diazonium salts of the type

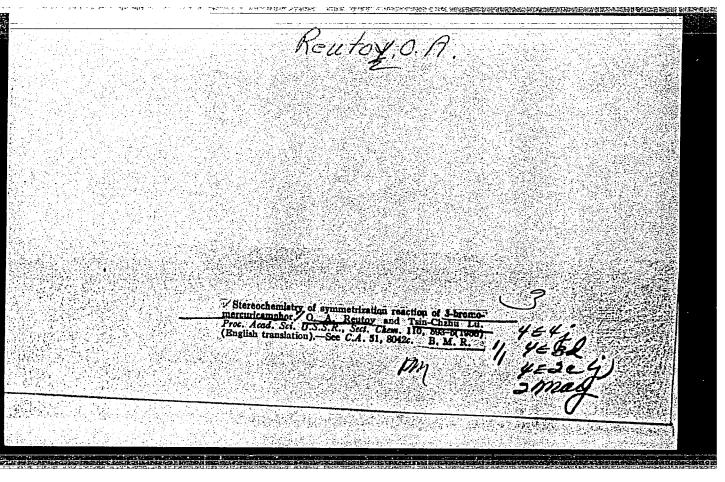
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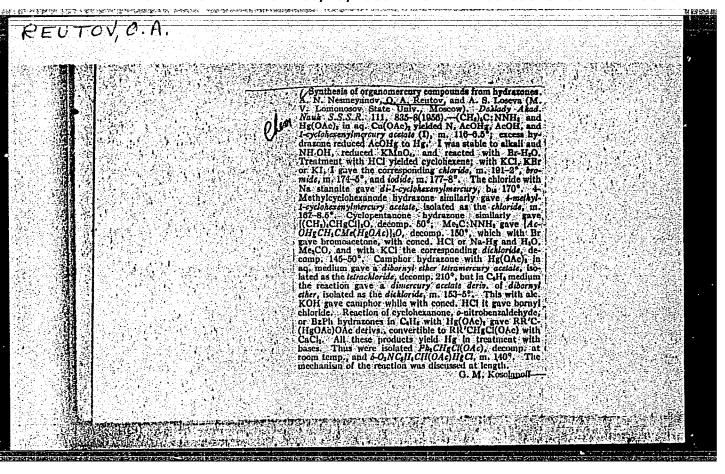
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	of elements	compounds for the syntheis of metallo-orga of the fifth group of the periodic system. '56. compounds) (Organometallic compounds) (Chemical elements)	enic compounds, Uch.zap.Mosk. (MIRA 10:3)			

REUTOV, O.A.

Synthetic Organic Chemistry. E-2 USSR/Organic Chemistry.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 26892.

Nesmeyanov, A.N., Reutov, O.A. Author :

Moscow University. Synthesis of Metallo-Organic Compounds of Inst Elements of 5th Group of Periodical System Title

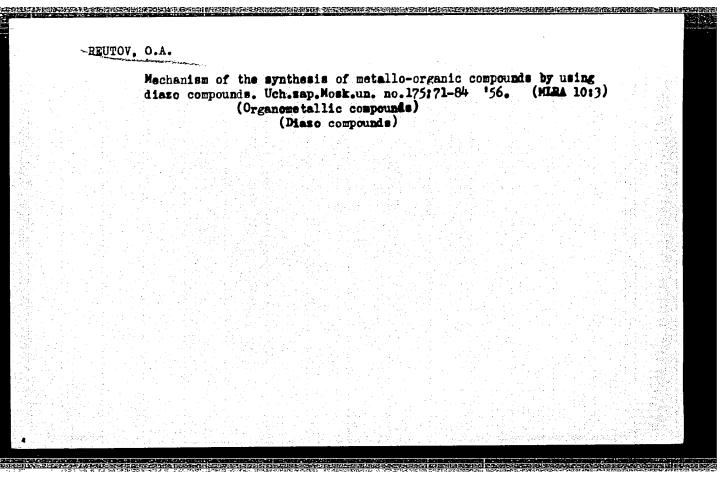
of Mendeleyev Using Diazocompounds.

Uch. zap. Mosk. un-ta, 1956, vyp. 175, 55 -Orig Pub:

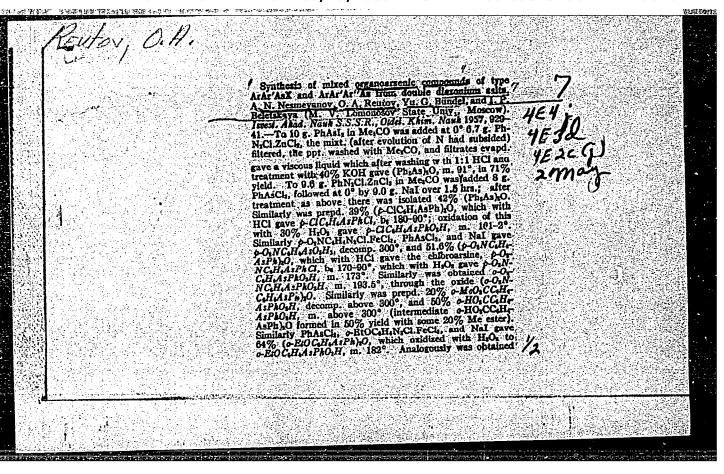
69 ...

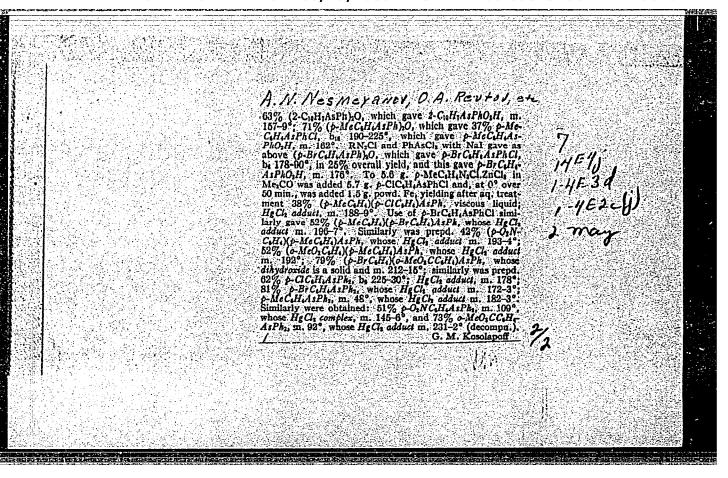
Bibliography with 35 titles. Review. Abstract:

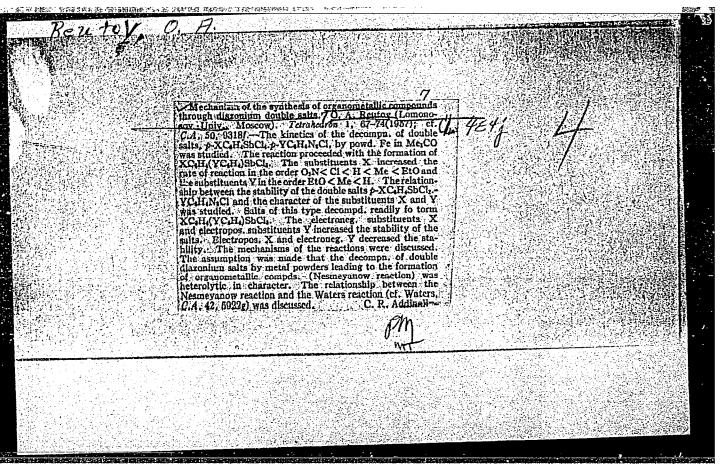
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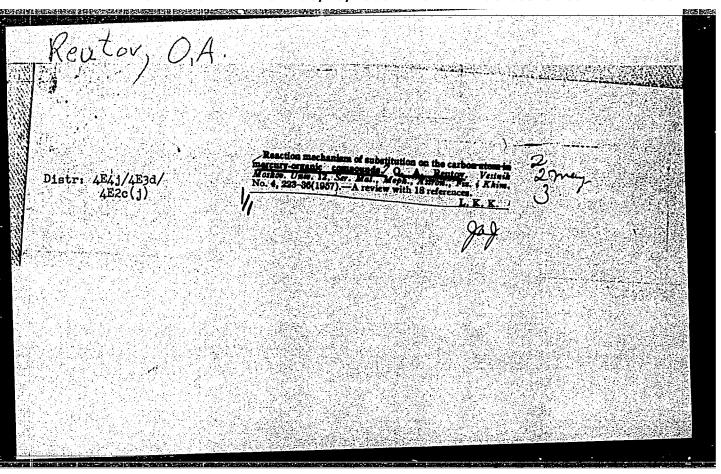


"On the Mechanism of Electrophilic Substitution on a Saturated Carbon Atom," a paper submitted at the 16th International Congress of Pure and Applied Chemistry, Paris, 18-24 Suly 1957.









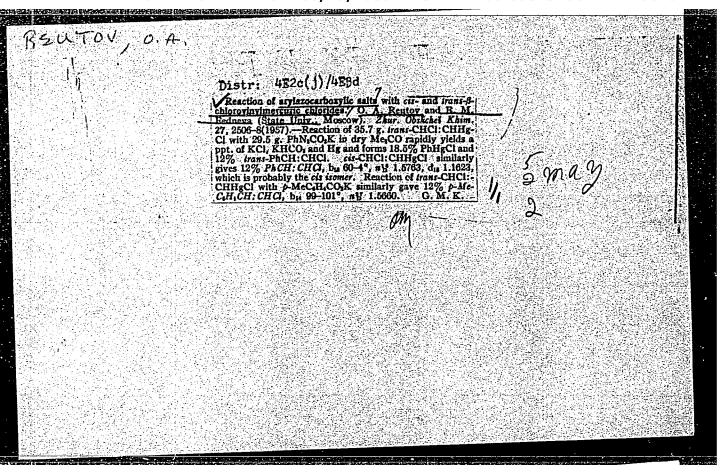
NESHRYANOV, A.N.; REUTOV, O.A.; BUNDEL, Yu.G.; BELINTSKAYA, I.P.

Syn thesis of mixed organoarsenic compounds of the type Ar Ar'ABZ
and Ar Ar'Ar" As via binary diazonius selts, Ixv. AN SSSR, Otd. khim.
and kno.8:929-941 Ag '57.

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

(Arsenic organic compounds)

,	REUTOV.	ganic	chemistry in the U.S.S.R. during the years of shkole 12 no.4:8-22 J1-Ag '57. (MLRA 10:8) (Chemistry, Organic)
5.4.			보통통에 시작되다면 중말하고 그녀는 살이 뭐야?
			물로 유로 열시되는 일반 없는 사람이 하는 사람들은
			보호맞으로 된 것 같아. 그렇게 살아 살림하는 것 같아.
			그렇지 말이 그렇자 그들으셨는데 계속하는 이 보다를 즐
			생활병 한국 관련 가는 것이 되었다. 하는 일이 되는 이 나는 무현
			[1982]
			시간 하셨다는 사람들은 얼마를 보고 되다는 사람이 되었다.
er let			등로 그렇게 하기 없는 그 맛을 살아 살아 하지 않는데 화가
			그들의 후 그리 방원생들 문제 그렇게 하게 보는 그 때문을 표
			그리트 하는 사람들은 사람들은 사람들은 사람들이 되었다.
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			원하는 이 사람들이 되었다. 이 살림 그림은 사람은 사람들은 그림을 다 됐다.
			지하다 한다는 이 문화가 되었다. 그 이 아들이 화경 전략하는데 나를 모았다.



REUTOV, O. A.

AUTHOR: TITLE:

20-1-30/64 PTITSYNA, O.A., REUTOV, O.A., TURCHINSKIY, M.F. The Synthesis of Tin-Organic Compounds by way of Double Iodides. (Sintez olovoorganicheskikh soyedineniy cherez dvcynwe soli, Russian) Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 110-112 (U.S.S.R.)

PERIODICAL:

Few data are found in chemical publications concerning the application of diaryl iodides as a starting point for the synthesis of metalorganic compounds. It was found that in the case of decomposition by metal powders of the double iodides (diaryliodonium) and ohlorine-ABSTRACT: containing metals corresponding metal-organic compounds can be formed. The same can be done in the case of metal-organic compounds of other

metals. (With 1 Table and 5 References).

ASSOCIATION: PRESENTED BY:

Not given

SUBMITTED: AVAILABLE:

Library of Congress

Card 1/1

REUTON, O.A.

20-3-27/59

AUTHORS TITLE Nesmeyanov, Nik.A., Reutov, O.A.

The Influence of Substituents on the Strength of Ferrocene-Carbo

PERIODICAL

ABSTRACT

It is known that ferrocene whos the properties of an aromatic pound in the substituent reactions. In the present paper the authors throw a light upon the similar question of the mutual exchange of the influence of the substituents through the ferrocene core. They produced the ferrocenecarboxylic acids with a common formula I = -C₂H₅, -C₄H₉-H, COOCH₃, -CO₃H₇, -COCH₃) and measured their dissociation constants. Furthermore monmethylether of the ferrocenedicarboxylic acid was produced by an uncompleted hydrolysis of the dimethyl-ether of this acid. Furthermore, in addition to the aforementioned, the constants of ferrocenecarboxylic-, butyric-, and benzoic acid are given in table I. The comparison between the dissociation constants shows that the introduction of alkyl into the unsubstituted cycle of the ferrocenecarboxylic acid reduces this constant who reas the introduction of a negative substituent increases it. This the acetyl-is 2,4 times stronger than the ferrocenecarboxylic acid. In the benzol series the p-acetyl benzoic acid is 4,2 times stronger than the benzoic acid an the p-carbomethoxylic benzoic acid 3.8 times stronger than the benzoic acid. Thus the influence of the substituents on the dissociation constant of the ferrocenecarbo-

Card 1/2

uara 2/2

CIA-RDP86-00513R001444710018-1 "APPROVED FOR RELEASE: 06/20/2000

REUTON, O.A.

Reutov, O. A., Beletskaya, I. P., and

20-4-25/51

AUTHORS:

Mardaleyshvili, R. Ye.,

TITLE:

The Kinetics of the Electrophile Supplementary Reaction Beside a Saturated Carbon Atom (Kinetika reaktsii elektrofil'nogo zameshcheniya u nasyshchennogo uglerodnogo atoma)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 4, pp. 617-620 (USSR)

ABSTRACT:

By means of the example of diastereomeric 1-methyl-ethers of the α-bromium-mercury-phenyl-acetic acid Nesmeyanov, Poddubnaya, and the first author have found that the symmetrisation of the mercury-organic salts takes place by ammonium which represents the reaction mentioned in the title takes place under the maintainance of the stereochemical configuration. The authors thought from the first that it seems not very probable that the symmetrisation of the mentioned ethers passes the stage of anion formation (in contrast to Hughes and Ingold, reference 4). Therefore they investigated the kinetics of the reaction in question. A mixture of the diasteromers and the diastomer with the melting point 1560 of the above mentioned ether alone were used for this purpose. In order to investigate the order of the reaction with respect to the initial substance R₁R₂R₃C -HgX, a method was used which is based upon the nephelometry-principle. A photocell fixed

Card 1/3

The Kinetics of the Electrophile Supplementary Reaction Beside 20-4-25/51 a Saturated Carbon Atom.

the quantity alteration of the light passing through in the course of the reaction in consequence of the deposition formation of (NH₃)₂.HgBr₂ according to an equation given here. The reaction has a second order for the two mercurized ethers (ethyltion has a second order for the first ethers takes place and methyl). The symmetrisation of the first ethers takes place and methyl) the latter. The constant of the reaction velocity quicker of the latter. The constant of the reaction velocity is of second order: $K_2 = \frac{1}{C_*T} \left(\frac{C_0}{C} - 1 \right), C \text{ is the concentration}$

of substance in the time 5; $K_2 = K \cdot (NH_3)^2$ (so in the original text - the reporter), as it is shown in the further course. In the second part of the paper the order of the reaction was In the second part of the second component - ammonium. If the detected with respect to the second component - ammonium. If the concentration alteration of NHz in the course of the first half concentration alteration of the initial velocity of the reaction it is hour is equated with the initial velocity of the ammonium easily to be proved that the initial velocity of the ammonium consumption is directly proportional to the square of its initial consumption. Thus the reaction investigated here has the second order with respect to the two substances. As the reaction took order with respect to the two substances. As the reaction took order with respect to the two substances, it can be ascase of different quantities of consumed substance, it can be assumed that the symmetrisation reaction is reversible. This is consumed that the symmetrisation reaction is reversible.

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firmed by the fact that the addition of the end product slows down the reaction (figure 4); the results obtained of the symmetrisation of mercury-organic salts by ammonium made the authors suggest a 2-stage mechanism of the reaction (scheme is given): I st (reversible) stage is the reaction mentioned in the title. In the II nd stage ammonium binds HgBr2 and shifts the equilibrium I to the right. These results facilitate to detect for the first time a bimolecular mechanism of the reaction mentioned in the title in which the stereochemical configuration is conserved. There are 4 figures, 2 tables and 6 references, 1 of which is Slavic.

State University imeni M. V. Lomonosov, Moscow (Moskovskiy gos-ASSOCIATION:

udarstvennyy universitet im. M. V. Lomonosova)

March 15, 1957, by A. N. Nesmeyanov, Academician PRESENT ED:

February 22, 1957 SUBMITTED:

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Card 3/3

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001444710018-1 是这种种种的,我们也是这种种的。他们也是这种种的。这种是是是一种的,但是是这种的,我们就是是一种的人,我们就是这种的人,我们就是这种的人,我们就是这种的人,就是

AUTHORS:

Reutov, O. A., and Ostapchuk, G. M.

20-117-5- 28/54

TITLE:

Isotopic Exchange Reaction Between Symmetric Organomercuric Compounds of the Aromatic Series and Metallic Mercury Labelled by H6203 (Reaktsiya izotopnogo obmena simmetrichnykh rtutnoorganicheskikh soyedineniy aromaticheskogo ryada s metallicheskoy rtut'yu, mechennoy Hg203).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 826-828 (USSR)

ABSTRACT:

The authors carried out a systematic investigation of the reactivity of various types of organomercuric compounds in the reactions of the isotopic exchange with metallic and haloid mercury. In present paper in this connection diaryl-mercury was investigated under the conditions given in the title. It was surprising that the symmetric organomercuric compounds react with metallic mercury under very mild conditions

>Hg- X + Hg ← X → Hg- ←

The velocity of the reactions depends considerably on the character of X. The reaction conditions are given. The

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Compounds of the Aromatic Series and Metallic Mercury Labelled
by Hg203

following figures can give an explanation of this velocity. The equilibrium for diphenyl-mercury is reestablished in xylene at 140° within 30 minutes. In dioxane at 60° within 2 hours and 45 minutes. For di-p-anisyl-mercury: in dioxane at 60° within one hour. In benzene at 20° within 16 hours. The exchange is accelerated by the rise of temperature, as well as within certain limits by the increase of the mercury excess. Furthermore the dependence of the velocity of the iso-Furthermore the dependence of the substituent X was topic exchange on the structure of the substituent X was determined. The experiments were carried out in pyridine. The results are given in table 1. They show that the velocity of the reaction of the isotopic exchange depends on the structure of the substituent X and increases in the order

O2N, C1 (H (CH3 (OCH3

The preciseness of the experiments does not facilitate the detection for the authors which compound, dinitro-phenylmercury or dichlorophenylmercury reacts quicker with metallic

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Isotopic Exchange Reaction Between Symmetric Organomercuric Compounds of the Aromatic Series and Metallic Mercury Labelled by Hg²⁰³

mercury. The mild reaction conditions are obvious, especially in the case of di-anis, l-mercury which reacts already in the cold. Apparently the reaction takes place directly between the molecules of the diaryl- and the metallic mercury. For this speak also the results of the isotopic exchange of the phenyl-p-nitrophenyl-mercury. After the isotopic equilibrium has been obtained, in the reaction the isotopic equilibrium has been obtained, in the reaction mixture only the initial phenyl-p-nitrophenyl-mercury was found. If the reaction passes the stage of formation of free phenyl- and nitrophenyl-radicals,

 $(c_6H_5)_2H_8$ and $(o_2NC_6H_4)_2H_8$

are bound to exist in the reaction mixture besides the mentioned initial substance.

There are 1 table, and 5 references, all of which are Slavic.

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Isotopic Exchange Reaction Between Symmetric Organomercuric 20-117-5-28/54 Compounds of the Aromatic Series and Metallic Mercury Labelled by Hg203

ASSOCIATION: State University imeni M. V. Lomonosov, Moscow

(Moskovskiy cosudarstvennyy universitet im. M. V. Lomonosova).

PRESENTED: October 25, 1957. by A. N. Nesmeyanov, Academician

SUBMITTED: October 24, 1957

Card 4/4

20-6-23/47 and U Yan Teey Reutov, O. A. , AUTHORS: The Isotopic Exchange Between Some Organomercuric Salts and Metallic Mercury Labelled by Hg203 (Izotopnyy obmen nekotorykh rtutnoorganicheskikh soley s metallicheskoy rtut'yu, mechennoy Hg205) TITLE: Doklady AN SSSR, 1957, Vol. 117, Nr 6, pp. 1003 - 1006 (USSR) PERIODICAL: The authors found that the oc-mercurized oxo-compounds under mild conditions react with metallic mercury labelled by the radioactive isotope Hg²⁰³ (references 1, 2): R - Hg - X + Hg R - Hg- X+Hg. ABSTRACT: The authors studied the interaction between metallic mercury and ∞ -brome-mercury-cyclohexane, ∞ -bromo-mercury-phenyl-acetic acid-ethyl-ether, the 6-methyl ether of the same acid, 3-bromo-mercury-3-benzyl-camphor, 3-bromo-mercury-camphor, 1-chloro-mercury--camphenylone, 2-bromo-mercury-camphane and n-butylmercuric bromide. The method of the measurement of radioactivity was earlier described by the authors (reference 2). By special tests it was proved that, in spite of the fact that the reaction is heterogeneous, the repeatability of the results is quite satisfactory. Table 1 shows the results. From them may be seen the order in which the reactivity of the & -mercurized oxo-compounds toward the metallic mercury decreased. This reactivity is not only determined by Card 1/3

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The Isotopic Exchange Between Some Organomercuric Salts and Metallic Mercury Labelled by Hg 203

the electronic character of the radicals at the carbon atom which is connected with mercury, but in several cases it is certainly determined by spatial factors. It is just for this reason that the A-bromo-mercury-phenyl-acetic acid probably reacts slowlier than the corresponding ethyl ether. On the other hand the activating action of the phenyl radical outweighs the steric difficulties created by themselves. 1-chloro-mercury-cam phenylone does not even react with metallic mercury after 40 hours of heating at 100°C, just like 2-bromo-mercury-camphane and n-butyl--mercuric bromide which are no &-mercurized derivatives of oxo--compounds. The great inertia of the mercury atom in 1-chloro-mercury-camphenylone can for the time being not satisfactorily explained. The reaction of the isotopic exchange found by the authors, apparently is homolytic. As it was found in the study of some symmetrization reactions of organomercuric salts (references 3, 4) that the symmetrizing agent (NH₃, KJ) does not affect the R-HgX molecule, but connects the HgX₂ molecules which form due to a remolecule, but connects the HgX₂ molecules which form due to a restriction 2R — HgX R — Hg — R + HgX₂, it would be natural to try to find out whether such an equilibrium also be natural to try to find out whether such an equilibrium also plays a part in the present case. Experimental facts, however, contradict a further given scheme. Therefore the reaction of the iso-

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